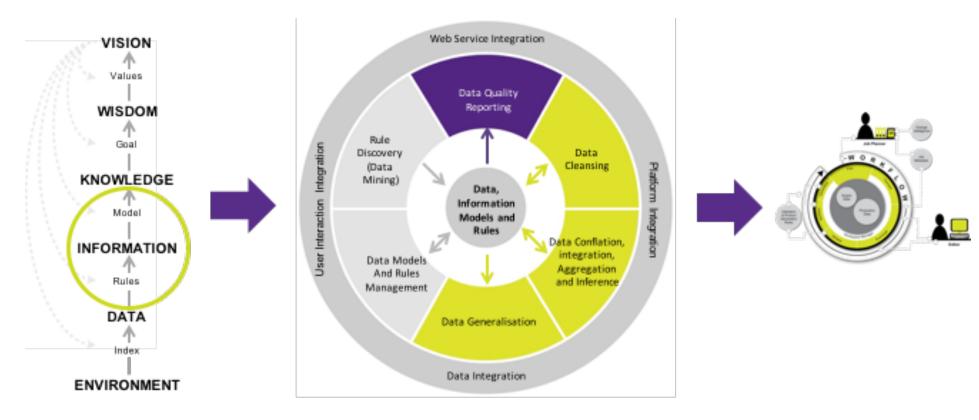




## A rules-based approach to spatial data management ...

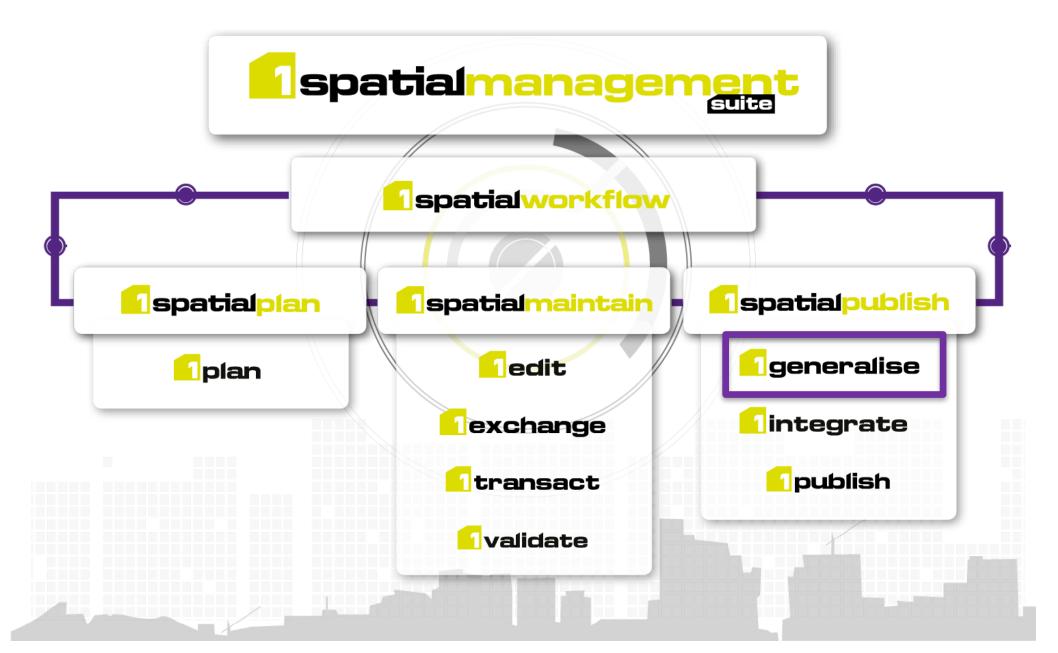




#### ... through automated data lifecycle management

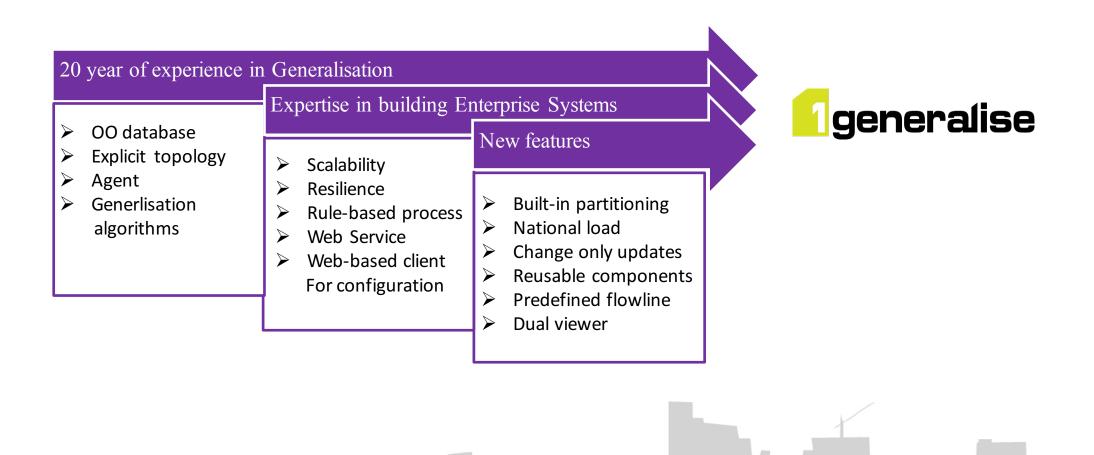






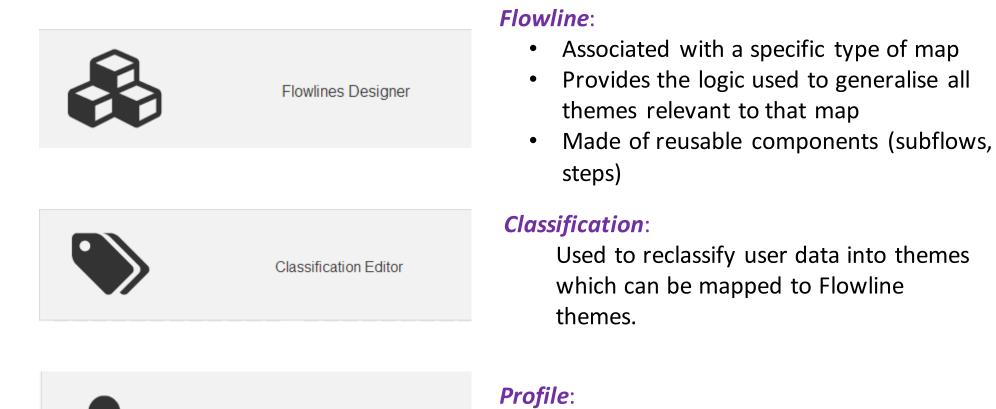


1Generalise: Building on expertise gained from 20+ years of close relationships with NMAs





## Key Concepts

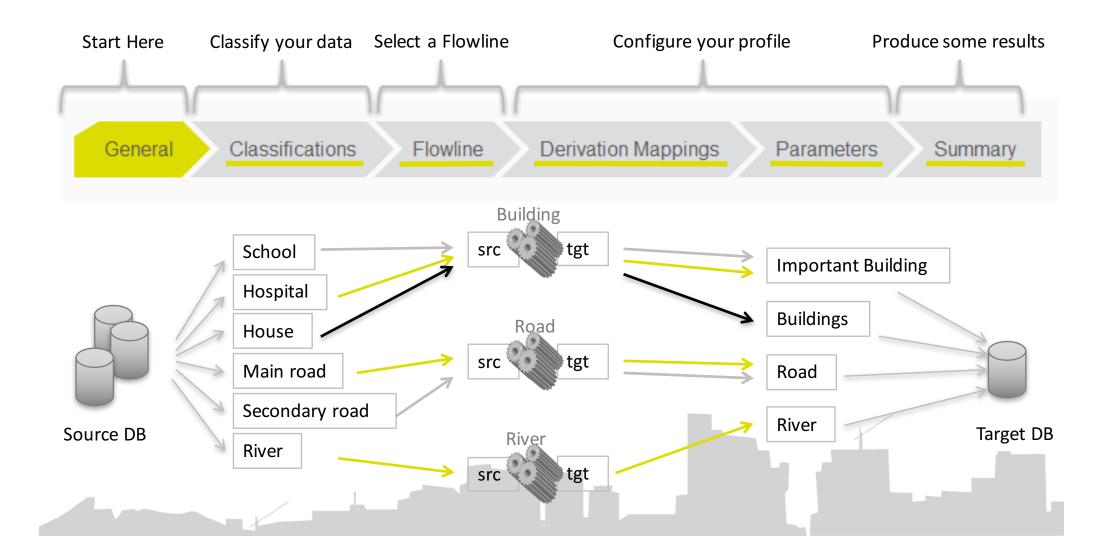


Profile Editor

Configuration settings to apply a Flowline to classified data

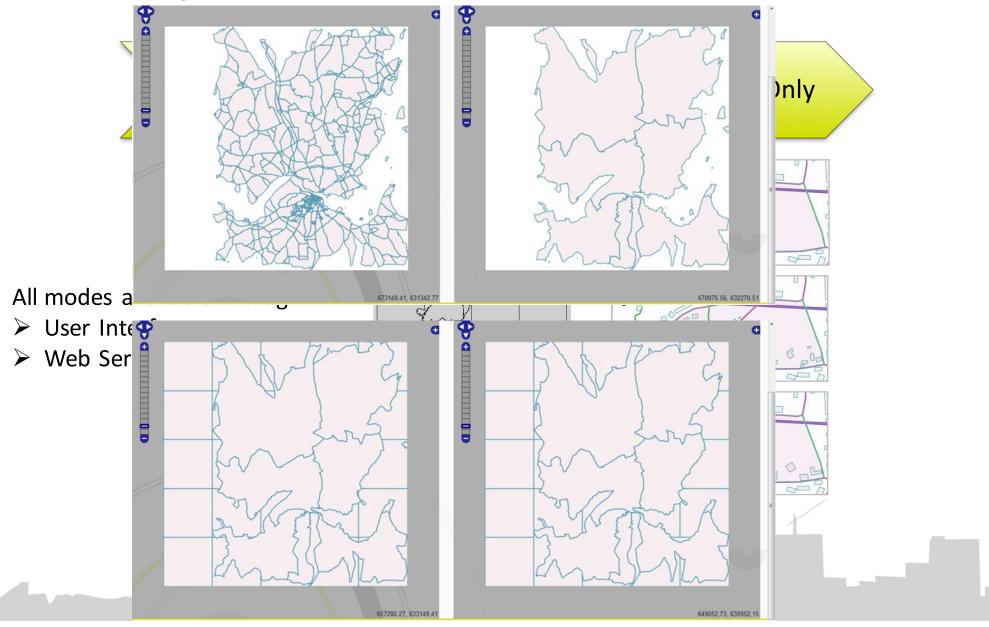


## Configuring your profile





### **Processing Modes**





# DEMO



## Simplification and smoothing of lines / boundaries



#### Topology awareness:

- Maintains shared geometries ٠
- Does not generate new intersections ٠

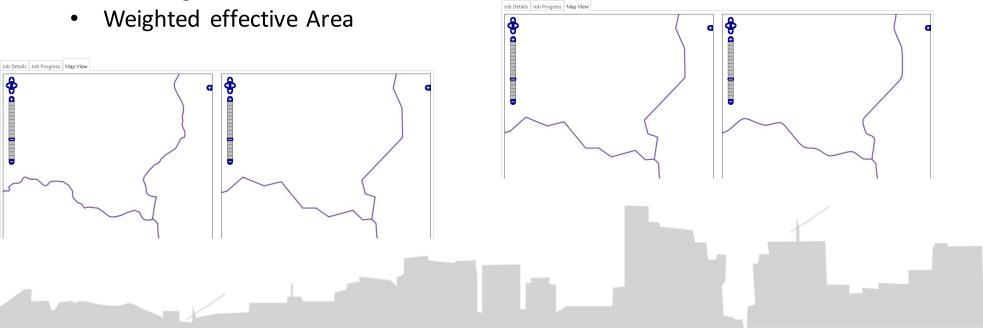
#### Simplification algorithms:

- **Douglas and Peucker** ٠
- Visvalingham •

¢

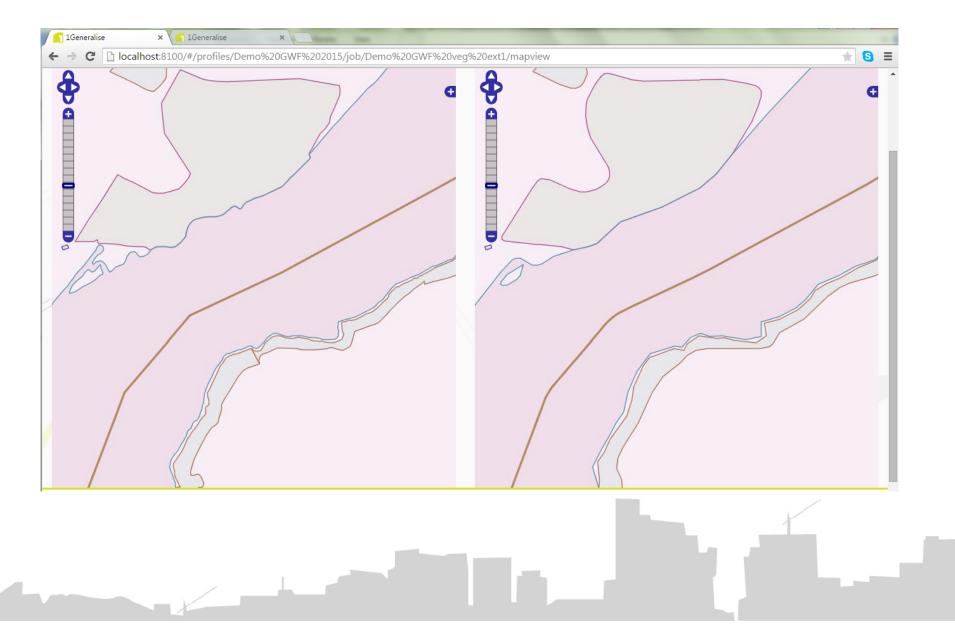
#### **Smoothing algorithms**:

Gaussian Smoothing •





### Simplification of lines / boundaries



## Merge adjoining area features



#### Control:

- Only merges features of the same target theme
- Possibility to modify the rule to prevent merging when specific linear features follow the shared boundary



## Aggregate area features in close proximity



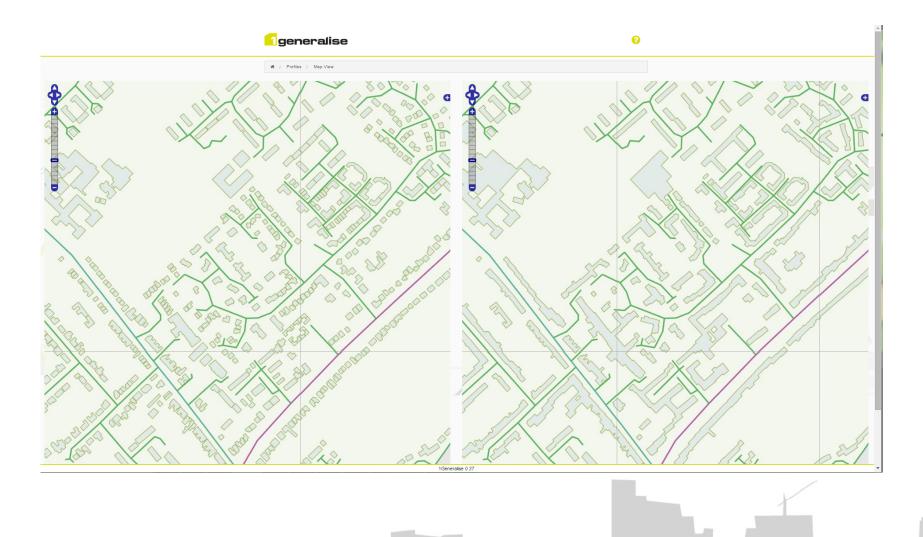
#### Control:

- Only merges features of the same target theme
- Prevents from aggregating across features of given themes



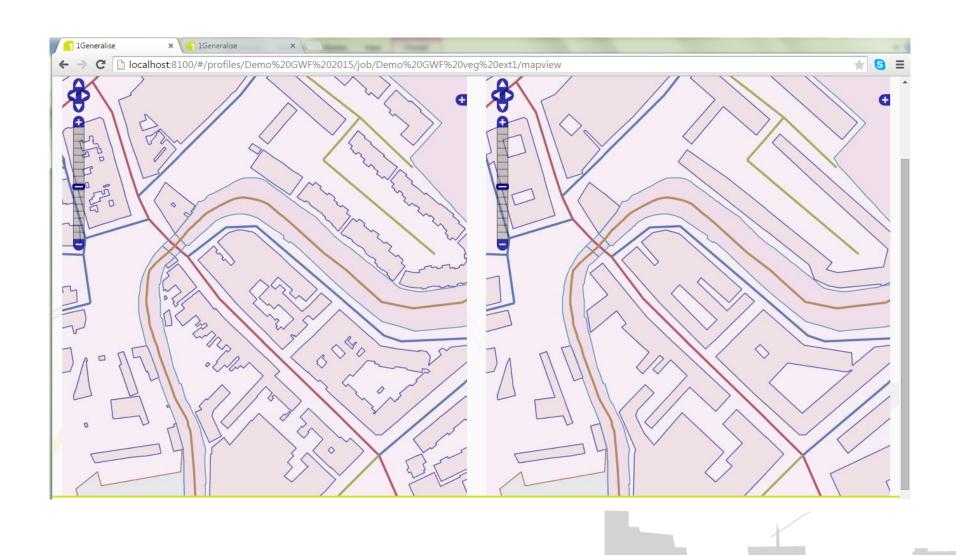
## Aggregate area features in close proximity





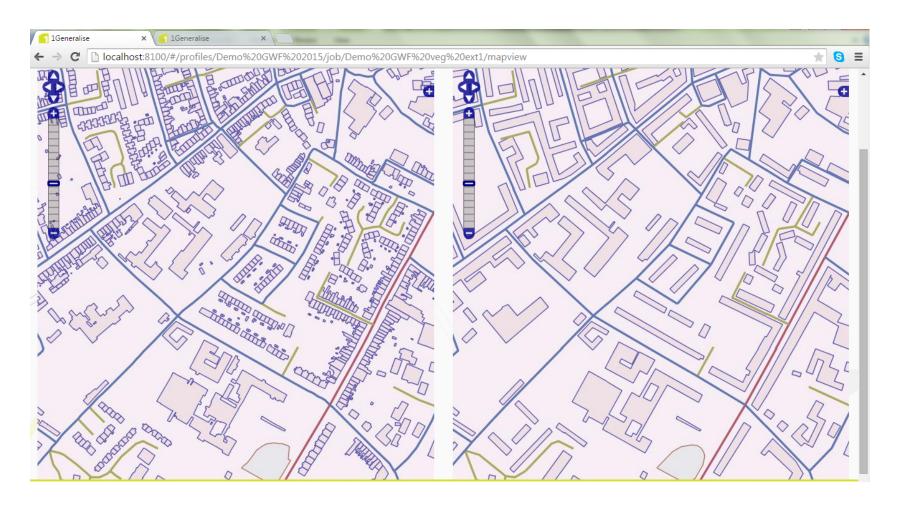
## **Building simplification**







### Remove short dead ends

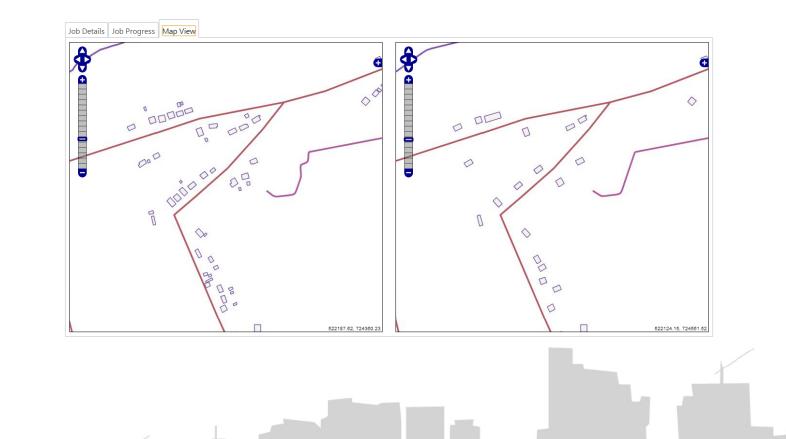




## Action based operations



#### Reclassification Delete / Enlarge small features Fill gaps





### Summary

- Dedicated application for generalisation National load – change only update
- Production ready
  Scalable and resilient
- Can be integrated in any system
  Service Oriented Architecture
- Easy to configure and use
  Rule-based action editor
  Reusable components, predefined flowline





## Potential integration with a vario scale system

- IGeneralise used to generate fixe scale slices for a vario-scale cube
  - Through SOAP Api
  - Generalisation rules can be setup through a Web interface
  - Should be quick to put in place
  - Training required
- Integrate Vario scale principles in 1Generalise
  - Requires R&D on 1Spatial side
  - Business case dependant



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